

What is claimed is:

1. A printing-fluid container, comprising:  
an off-axis printing-fluid reservoir configured to hold printing fluid;  
a printing-fluid interface configured to output printing fluid from the printing-  
5 fluid reservoir; and  
an air-interface configured to regulate pressure within the printing-fluid  
reservoir.
2. The printing-fluid container of claim 1, wherein the printing-fluid  
10 reservoir includes a leading edge, and wherein the printing-fluid interface and the  
air-interface are on the leading edge.
3. The printing-fluid container of claim 2, wherein the leading edge of  
the printing-fluid reservoir is an upright surface configured for lateral insertion into  
15 a printing system.
4. The printing-fluid container of claim 2, wherein the leading edge has  
a substantially planar profile.
- 20 5. The printing-fluid container of claim 2, wherein the air-interface is  
above the printing-fluid interface on the leading edge of the printing-fluid  
reservoir.
6. The printing fluid container of claim 2, wherein a single structural  
25 piece forms the leading edge.
7. The printing-fluid container of claim 1, wherein the printing-fluid  
interface is configured to laterally input and output the printing fluid.

8. The printing-fluid container of claim 1, wherein the air-interface is configured to laterally input and output the air.

9. The printing-fluid container of claim 1, wherein the printing-fluid  
5 interface includes a ball and septum assembly.

10. The printing-fluid container of claim 1, wherein the air-interface includes a ball and septum assembly.

10 11. The printing fluid container of claim 1, wherein the printing-fluid interface and the air-interface are each respectively configured to conditionally block input and output of printing fluid and air unless engaged by a fluid connector.

15 12. A printing-fluid container, comprising:  
an off-axis printing-fluid reservoir configured to hold printing fluid;  
a printing-fluid interface on the printing-fluid reservoir, wherein the printing-fluid interface is configured to output printing fluid from the printing-fluid reservoir during a first mode of operation and is configured to input printing fluid into the  
20 printing-fluid reservoir during a second mode of operation; and  
an air-interface on the printing-fluid reservoir, wherein the air-interface is configured to regulate pressure within the printing-fluid reservoir by inputting air into the printing-fluid reservoir during the first mode of operation and by outputting air from the printing-fluid reservoir during the second mode of operation.

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13. The printing-fluid container of claim 12, wherein the printing-fluid reservoir includes a leading edge, and wherein the printing-fluid interface and the air-interface are on the leading edge.

14. The printing-fluid container of claim 13, wherein the leading edge of the printing-fluid reservoir is an upright surface configured for lateral insertion into a printing system.

5 15. The printing-fluid container of claim 13, wherein the leading edge has a substantially planar profile.

10 16. The printing-fluid container of claim 13, wherein the air-interface is above the printing-fluid interface on the leading edge of the printing-fluid reservoir.

15 17. The printing-fluid container of claim 16, wherein the air-interface is vertically aligned above the printing-fluid interface on the leading edge of the printing-fluid reservoir.

18. The printing fluid container of claim 13, wherein a single structural piece forms the leading edge.

20 19. The printing-fluid container of claim 12, wherein the printing-fluid interface is configured to laterally input and output the printing fluid.

20. The printing-fluid container of claim 12, wherein the air-interface is configured to laterally input and output the air.

25 21. The printing-fluid container of claim 12, wherein the air-interface is configured to regulate pressure within the printing-fluid reservoir to an operating pressure substantially equivalent to an ambient atmosphere pressure.

22. The printing-fluid container of claim 12, wherein the air-interface is configured to regulate pressure within the printing-fluid reservoir to an operating pressure above an ambient atmosphere pressure.

5        23. The printing-fluid container of claim 12, wherein the air-interface is configured to regulate pressure within the printing-fluid reservoir to an operating pressure below an ambient atmosphere pressure.

10       24. The printing-fluid container of claim 12, wherein the air-interface actively regulates pressure within the printing-fluid reservoir.

25. The printing-fluid container of claim 12, wherein the air-interface passively regulates pressure within the printing-fluid reservoir.

15       26. The printing-fluid container of claim 12, wherein the printing-fluid interface includes a ball and septum assembly.

20       27. The printing-fluid container of claim 12, wherein the printing-fluid interface is configured to receive a fluid connector that is in fluid communication with a printing-fluid ejector upon installation of the printing-fluid container into a printing system.

25       28. The printing-fluid container of claim 27, wherein the printing-fluid interface is configured to deliver printing fluid to the printing-fluid ejector via the fluid connector during the first mode of operation.

29. The printing-fluid container of claim 12, wherein the air-interface includes a ball and septum assembly.

30. The printing-fluid container of claim 12, wherein the air-interface is configured to receive a fluid connector that is in fluid communication with a venting assembly upon installation of the printing-fluid container into a printing system.

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31. The printing-fluid container of claim 30, wherein the air-interface is configured to vent air to the venting assembly via the fluid connector during the second mode of operation.

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32. The printing-fluid container of claim 12, wherein the printing-fluid interface and the air-interface are respectively configured to conditionally block input and output of printing fluid and air unless the printing-fluid interface is engaged by a fluid connector and the air-interface is engaged by a fluid connector.

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33. A printing-fluid container, comprising:

an off-axis printing-fluid reservoir configured to hold printing fluid;

a ball and septum printing-fluid interface on an upright leading edge of the printing-fluid reservoir, wherein the printing-fluid interface is configured to output printing fluid from the printing-fluid reservoir during a first mode of operation and is configured to input printing fluid into the printing-fluid reservoir during a second mode of operation; and

a ball and septum air-interface vertically aligned above the printing-fluid interface on the leading edge of the printing-fluid reservoir, wherein the air-interface is configured to regulate pressure within the printing-fluid reservoir by inputting air into the printing-fluid reservoir during the first mode of operation and by outputting air from the printing-fluid reservoir during the second mode of operation;

wherein the printing-fluid interface and the air-interface are configured to block input and output of printing fluid and air until the printing-fluid container is laterally installed into a printing system and a first fluid connector engages the printing-fluid interface and a second fluid connector engages the air-interface.

34. The printing fluid container of claim 33, wherein a single structural piece forms the upright leading edge of the printing-fluid reservoir.

35. A printing-fluid container, comprising:

5 reservoir means for holding a printing fluid;

means for laterally outputting printing fluid from the reservoir means during a first mode of operation and for laterally inputting printing fluid into the reservoir means during a second mode of operation; and

10 means for regulating pressure within the reservoir means by laterally inputting air into the reservoir means during the first mode of operation and by laterally outputting air from the reservoir means during the second mode of operation.

36. The printing-fluid container of claim 35, wherein the means for  
15 laterally outputting printing fluid is vertically aligned below the means for regulating pressure.

37. The printing fluid container of claim 35, wherein the means for  
20 laterally outputting printing fluid and the means for regulating pressure are arranged on a single structural piece.

38. A method of supplying printing fluid, comprising:

storing printing fluid in a reservoir having an air-interface and a printing-fluid interface;

25 allowing printing fluid to exit the reservoir through the printing-fluid interface and allowing air to enter the reservoir through the air-interface during a first mode of operation; and

30 allowing printing fluid to return to the reservoir through the printing-fluid interface and allowing air to exit the reservoir through the air-interface during a second mode of operation.

39. The method of claim 38, wherein allowing printing fluid to exit the reservoir includes laterally delivering printing fluid from the reservoir.

40. The method of claim 38, wherein allowing printing fluid to return to  
5 the reservoir includes laterally returning printing fluid to the reservoir.

41. The method of claim 38, allowing printing fluid to return to the reservoir includes returning printing fluid and at least one of air and froth.